

## ABSTRACT

### THE IMPROVEMENT OF LEARNING QUALITY OF WELDING COMPETENCE STANDARD ON MANUAL METAL ARC PROCESS USING DIGITAL INSTRUCTIONAL MEDIA IN SMK N 2 PENGASIH KULON PROGO

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This study is aimed at (1) assessing the way to improve the students' active participation by using the digital media program *Adobe Professional Flash CS3* during the instruction of welding standard competence on manual metal arc process in SMK N 2 Pengasih Kulon Progo; (2) assessing the students' academic performance during the learning process by using the digital media program *Adobe Professional Flash CS3* during the instruction of welding standard competence on manual metal arc process in SMK N 2 Pengasih Kulon Progo.

The study is a classroom action research applying Kemmis & Taggart model. It was implemented in three cycles. Each meeting applied the following procedure: planning, implementation, observation, and reflection. The subject of the study is 32 students. The data collection instruments used are observation sheet and learning result test. The data on student active participation was obtained through class observation and was analyzed in order to compare the students' active participation in each cycle. The data on academic performance was acquired through test and was analyzed to compare test results in each cycle.

The results of the study show that the implementation of welding competence standard on manual metal arc process using the digital media program *Adobe Professional Flash CS3* can improve the students' active participation and academic performance by 2.5 points (scant) improvement in cycle I, 3.25 points (passable) in cycle II, and 3.75 points (good) in cycle III. The improvement of average class grade: 73.0 in cycle I with 5 students (15.62%) scoring under 70.0, into 81.0 in cycle II with 3 students (9.37%) scoring under 70.0, and 82.6 in cycle III with no student scoring under 70.0.

**Keywords:** learning quality, digital instructional media